

In re Patent Application of:

BRICHER ET AL.

Serial No. **10/806,667**

Filed: **March 23, 2004**

In the Claims:

This listing of claims replaces all prior versions and listing of claims in the application.

1. (Currently Amended) A cryptographic device comprising:
 - a cryptographic module and a communications module removably coupled thereto;
 - said cryptographic module comprising
 - a first housing,
 - a user network interface carried by said first housing,
 - a cryptographic processor carried by said first housing and coupled to said user network interface, and
 - a first connector carried by said first housing and coupled to said cryptographic processor;
 - said communications module comprising
 - a second housing,
 - a second connector carried by said second housing and being removably mateable with said first connector of said cryptographic module,
 - a network interface carried by said second housing and coupled to said second connector, and
 - at least one logic device being polled by said cryptographic processor to determine a type of

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communications module and an operating status of said communications module, said at least one logic device also permitting said cryptographic processor to configure said network communications interface of said communications module for a given application.

2. (Original) The cryptographic device of Claim 1 wherein said communications module comprises a predetermined one from among a plurality of interchangeable communications modules each for communicating over a different communications media.

3. (Cancelled).

4. (Cancelled).

5. (Original) The cryptographic device of Claim 1 wherein said communications module further comprises at least one status indicator carried by said second housing and coupled to said at least one logic device.

6. (Original) The cryptographic device of Claim 1 wherein said at least one logic device comprises a complex programmable logic device (CPLD).

7. (Original) The cryptographic device of Claim 1 wherein said network communications interface comprises at least

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one of a wireless LAN (WLAN) communication circuit, a wireline communication circuit, and a fiber optic communication circuit.

8. (Original) The cryptographic device of Claim 1 wherein said user network interface comprises an Ethernet Local Area Network (LAN) interface, and wherein said network communications interface comprises a network LAN interface.

9. (Original) The cryptographic device of Claim 1 wherein said cryptographic processor comprises:
a host network processor coupled to said user network interface; and
a cryptography circuit coupled to said host network processor.

10. (Original) The cryptographic device of Claim 9 wherein said cryptographic processor further comprises:
an unencrypted data buffer circuit coupled between said user network interface and said cryptography circuit; and
an encrypted data buffer circuit coupled between said cryptography circuit and said network communications interface.

11. (Original) The cryptographic device of Claim 1 wherein said cryptographic module further comprises a tamper circuit for disabling said cryptographic processor based upon tampering with said first housing.

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12. (Original) The cryptographic device of Claim 11 wherein said tamper circuit comprises at least one conductor substantially surrounding said cryptographic processor, and wherein said cryptographic processor is disabled based upon a break in said at least one conductor.

13. (Previously Presented) A cryptographic device comprising:

a cryptographic module and a communications module removably coupled thereto;

said cryptographic module comprising

a first housing,

a user Local Area Network (LAN) interface carried by said first housing and comprising a plurality of different connectors for coupling the cryptographic module to different network devices,

a cryptographic processor carried by said first housing and coupled to said user LAN interface, and

a first connector carried by said first housing and coupled to said cryptographic processor;

said communications module comprising

a second housing,

a second connector carried by said second housing and being removably mateable with said first connector of said cryptographic module,

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a network LAN interface carried by said second housing and coupled to said second connector, and at least one logic device for cooperating with said cryptographic processor to determine a type of communications module and an operating status thereof, said at least one logic device also permitting said cryptographic processor to configure said network LAN interface.

14. (Original) The cryptographic device of Claim 13 wherein said communications module comprises a predetermined one from among a plurality of interchangeable communications modules each for communicating over a different communications media.

15. (Original) The cryptographic device of Claim 13 wherein said communications module further comprises at least one status indicator carried by said second housing and coupled to said at least one logic device.

16. (Original) The cryptographic device of Claim 13 wherein said at least one logic device comprises a complex programmable logic device (CPLD).

17. (Original) The cryptographic device of Claim 13 wherein said network LAN interface comprises at least one of a wireless LAN (WLAN) communication circuit, a wireline LAN

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communication circuit, and a fiber optic LAN communication circuit.

18. (Original) The cryptographic device of Claim 13 wherein said user LAN interface comprises an Ethernet interface.

19. (Original) The cryptographic device of Claim 13 wherein said cryptographic processor comprises:

 a host network processor coupled to said user LAN interface; and

 a cryptography circuit coupled to said host network processor.

20. (Original) The cryptographic device of Claim 19 wherein said cryptographic processor further comprises:

 an unencrypted data buffer circuit coupled between said user LAN interface and said cryptography circuit; and

 an encrypted data buffer circuit coupled between said cryptography circuit and said network LAN interface.

21. (Original) The cryptographic device of Claim 13 wherein said cryptographic module further comprises a tamper circuit for disabling said cryptographic processor based upon tampering with said first housing.

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22. (Original) The cryptographic device of Claim 21 wherein said tamper circuit comprises at least one conductor substantially surrounding said cryptographic processor, and wherein said cryptographic processor is disabled based upon a break in said at least one conductor.

23. (Currently Amended) A communications method comprising:

coupling a cryptographic module to a network device, the cryptographic module comprising a first housing, a user network interface carried by the first housing, a cryptographic processor carried by the first housing and coupled to the user network interface, and a first connector carried by the first housing and coupled to the cryptographic processor;

providing a communications module comprising a second housing, a second connector carried by the second housing, a network LAN interface carried by the second housing and coupled to the second connector, and at least one logic device carried by the second housing and coupled to the second connector, the second connector of the communications module being removably mated with the first connector of the cryptographic module;

using the network LAN interface to communicate with a network; and

causing the at least one logic device to be polled by the cryptographic processor to determine a type of

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communications module and an operating status of the
communications module; and

using the at least one logic device to configure the
network communications interface of the communications module
for a given application.

24. (Original) The method of Claim 23 wherein the
communications module comprises a predetermined one from among a
plurality of interchangeable communications modules each for
communicating over a different communications media.

25. (Cancelled).

26. (Cancelled).

27. (Currently Amended) A communications system
comprising:

a plurality of network devices coupled together to
define a network, and a cryptographic device coupled to at least
one of said network devices;

said cryptographic device comprising a cryptographic
module coupled to said at least one network device, and a
communications module removably coupled to said cryptographic
module;

said cryptographic module comprising
a first housing,

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a user network interface carried by said first housing,

a cryptographic processor carried by said first housing and coupled to said user network interface, and

a first connector carried by said first housing and coupled to said cryptographic processor; said communications module comprising

a second housing,

a second connector carried by said second housing and being removably mateable with said first connector of said cryptographic module,

a network communications interface carried by said second housing and coupled to said second connector, and

at least one logic device being polled by said cryptographic processor to determine a type of communications module and an operating status of said communications module, said at least one logic device also permitting said cryptographic processor to configure said network communications interface of said communications module for a given application.

28. (Original) The communications system of Claim 27 wherein said communications module comprises a predetermined one

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from among a plurality of interchangeable communications modules each for communicating over a different communications media.

29. (Cancelled).

30. (Cancelled).

31. (Original) The communications system of Claim 27 wherein said communications module further comprises at least one status indicator carried by said second housing and coupled to said at least one logic device.

32. (Original) The communications system of Claim 27 wherein said at least one logic device comprises a complex programmable logic device (CPLD).

33. (Original) The communications system of Claim 27 wherein said network communications interface comprises at least one of a wireless LAN (WLAN) communication circuit, a wireline communication circuit, and a fiber optic communication circuit.

34. (Original) The communications system of Claim 27 wherein said user network interface comprises an Ethernet Local Area Network (LAN) interface, and wherein said network interface comprises a network LAN interface.

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35. (Previously Presented) The method of Claim 23 wherein the user network interface comprises a plurality of different connectors for coupling the cryptographic module to different network devices.

36. (Previously Presented) The communications system of Claim 27 wherein said user network interface comprises a plurality of different connectors for coupling the cryptographic module to different network devices.